

Serial Number: 10/709,270
Filed: 4/26/2004

baeckoch ip

Claim Amendments

1. (currently amended) A sealing assembly for a cable to apparatus interconnection, comprising:
 - a plurality of shells adapted to mate together, surrounding the interconnection within an interconnection space;
 - when mated together, the shells forming openings for the cable and the apparatus at an apparatus end and a cable end, respectively;
 - a single gasket loop mounted to each shell along a mating surface between the shells and along the openings;
 - a locking band around an outer diameter of the mated together shells, the locking band having a retaining means for end to end interconnection.
2. (original) The device of claim 1, wherein the retaining means is a hook over fin closure.
3. (original) The device of claim 1, wherein the locking band is seated between shoulders formed in the shells.
4. (original) The device of claim 1, wherein the plurality of shells is two shells, the two shells forming the outer diameter having a minimum radius at the mating surface between the shells; and a depression in an outer surface of each shell formed proximate a midpoint between the mating surfaces; the depressions receiving an inward projecting protrusion of the locking collar as the locking collar is rotated about the shells from a closed to a locked position.

Serial Number: 10/709,270
Filed: 4/26/2004

LOCKHEED MARTIN CORPORATION

5. (original) The device of claim 1, wherein the gasket is formed from one of a liquid injection molded silicone rubber, liquid silicone rubber, thermoplastic elastomer and molded closed-cell foam.
6. (original) The device of claim 1, wherein the locking band is segmented into two halves by a hinge portion.
7. (original) The device of claim 1, wherein the shell has at least one locking rib projecting into the connection area to rotatably interlock the shell with a coupling nut of the interconnection.
8. (original) The device of claim 1, wherein a width along a longitudinal axis of the gaskets along the openings is greater at the cable end than at the apparatus end.
9. (currently amended) A sealing assembly for a cable to apparatus interconnection, comprising:
 - three shells adapted to mate together, surrounding the interconnection within an interconnection space;
 - when mated together, the shells forming openings for the cable and the apparatus at an apparatus end and a cable end, respectively;
 - a single gasket loop mounted to each shell along a mating surface between the shells and along the openings;
 - a hinge portion between each of the shells; and
 - a retaining means adapted to retain the shells in a mated together configuration around the interconnection.

Serial Number: 10/709,270
Filed: 4/26/2004

BOEING IP

10. (original) The device of claim 9, wherein the retaining means is at least one hole which mates with at least one fin.
11. (original) The device of claim 10, wherein a locking bar operable as a lever extends from the retaining means, along the longitudinal length of the retaining means.
12. (original) The device of claim 9, wherein at least one shell has at least one locking rib projecting into the connection area to rotatably interlock the shell with a coupling nut of the interconnection.
13. (original) The device of claim 9, wherein the gasket is formed from one of a liquid injection molded silicone rubber, liquid silicone rubber, thermoplastic elastomer and molded closed-cell foam.
14. (original) The device of claim 9, wherein a width along a longitudinal axis of the gaskets along the openings is greater at the cable end than at the apparatus end.
15. (original) The device of claim 14, wherein an inner groove is formed in the gasket at the cable end.
16. (original) The device of claim 9, further including a plurality of compensation spikes formed protruding from the gasket(s) proximate a contact point between each of the gasket(s) with each other and the cable.